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JASIEWICZ, Z., prof. dr inz.; RYS, J., dr inz.

Correlation between tensile strength R and elongation as in normalized carbon construction steel. Hutnik P 29 no.4:121-126 Ap 162.

1. Katedra Metalografii i Obrobki Cieplnej, Akademia Gorniczo-Hutnicza, Krakow.

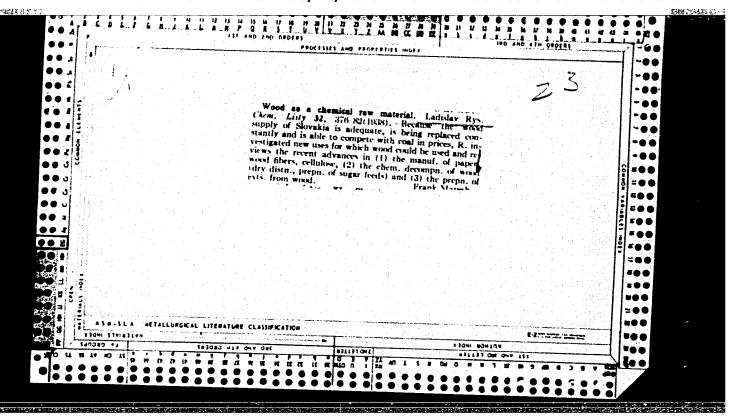
JASIEWICZ, Zygmunt, prof. dr inz.; FRYDRYCH, Hanna, mgr inz.; RYS, Jerzy, dr inz.

Achievements and difficulties in the production of wires and cables for cable railways. Hutnik P 30 no.9:304-308 S '63.

### RYS, Jerzy

Mechanical properties of iron sheets of old locomotive boilers as determined by flat and ring samples. Przegl kolej mechan 16 [i.e. 15] no.4:92-98 Ap \*63.

l. Katedra Metalografii i obrobki Cieplnej, Akademia Gorniczo-Hutnicza, Krakow.

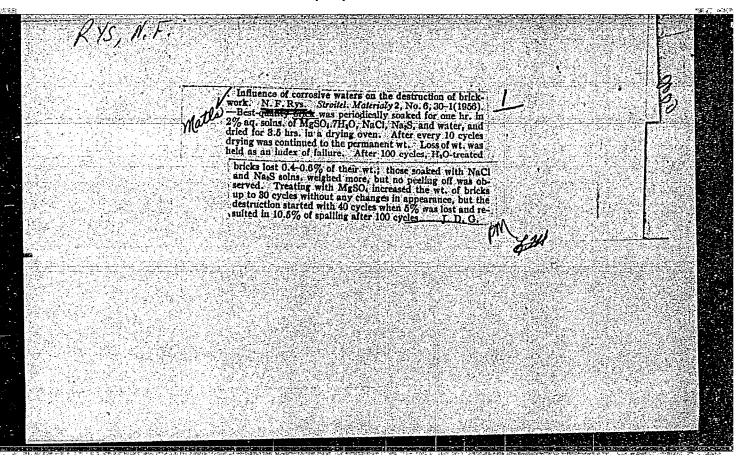


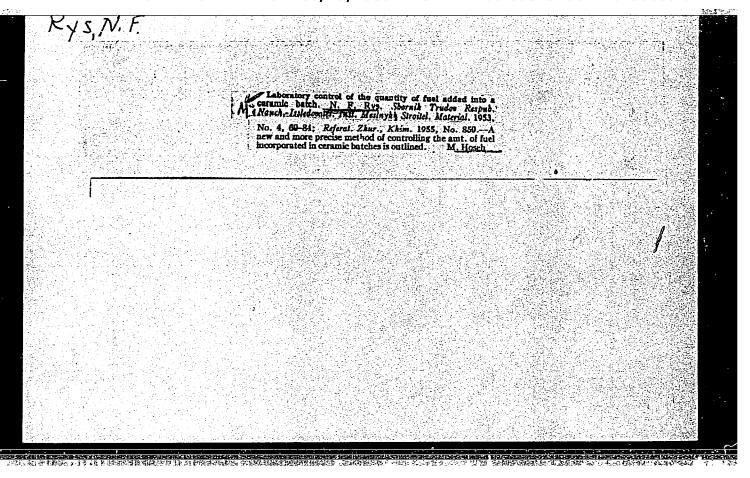
DOIEZAL, Bohuslav, MVDr.; POKORNY, Vladimir, MVDr.; RYS, Milos Effect of mechanization and automation on meat processing technology. Prum potravin 14 no.5:253-255 My 863.

1. Vyzkumny ustav pro maso, Brno (for Bolezal and Pokorny). 2. Sdruzeni masneho prumyslu, Praha (for Rys).

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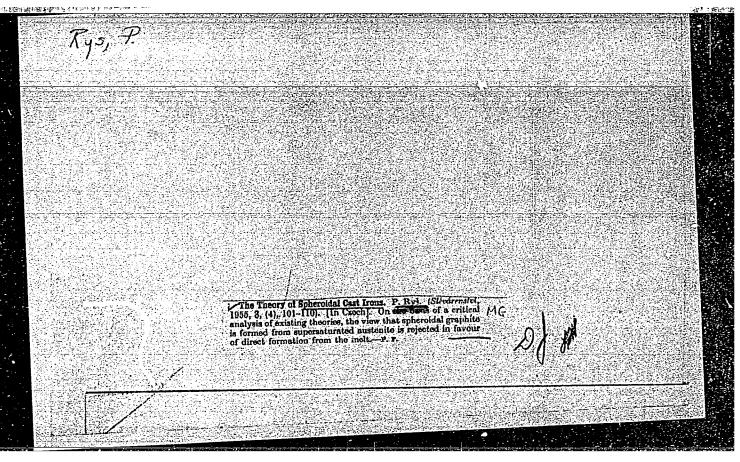
Isolated traumatic subcutaneous rupture of the gallbladder.

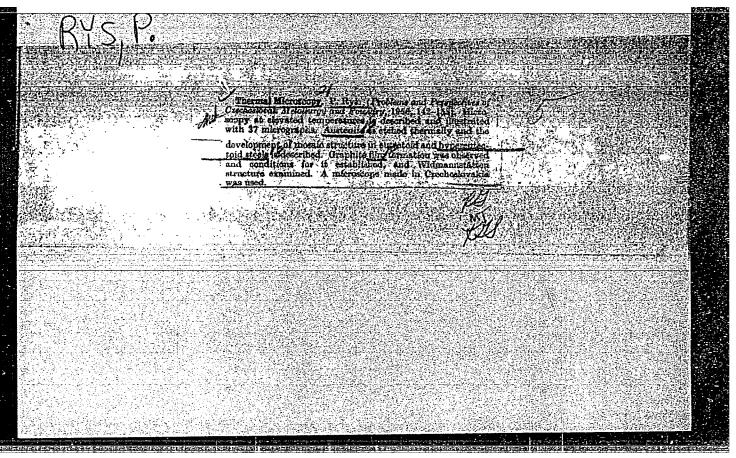
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1. Is khirurgicheskogo otdeleniya (zav. N.V.Rys') Shadrinskoy gorodskoy bol'nitsy Kurganskoy oblasti (glavnyi vrach T.A. Sheveleva).

(GALISHADDER, rupture, (WOUNDS AND INJURISS, \*traum.) \*gallbladder, causing rupt.)

"Ductile Cast Iron." . 5.5. ( <u>Hutnicks</u> Liston Vol. 7, No. 12, No. 122, Fruha.)  SC: Lonthly List of East Burowan Accessions, Library of Congress Harch 1954, Uncl.				2011/2014
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RYS, PREMYSL

Category : CZECHOSLOVAKIA/Solid State Physics - Morphology of

Crystels. Crystellization

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6696

Author : Rys, Fromysl

Inst : Vojenska technika akademie h. Zapotockoho, Brno, Czesho-

slovekie

Title : Certain Remarks on the Crystallization of Metals

Orig Pub: Sleverenstvi, 1956, 4, No 9, 263-267

Abstract: The fundamental therrodynamic conditions are derived for

Spontaneous crystallization characterized by the appearance of supercritical nuclei (homogeneous nucleation). The influence of non-metallic inclusions and of the wells of the mold on the hardening of the metals, the nature of the crystallization process at the walls, and the action of various types of non-metallic inclusions are discussed. Certain exemples of the action of the inclusions on the structure of the alloys are given. In conclusion, methods are mentioned with which it is possible to obtain a fine crystal-

lization structure of motals and alloys.

Card : 1/1

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APPROVED FOR RELEASE: 06/20/2000

RYS PREMYSL

CZECHOSLOVAKIA/Solid State Physics - Phase Transitions in Solids F-6

Abs Jour : Ref Znur - Fizika, No 5, 1958, No 10606

Author : Rvs Premysl, Bezdek Ladislav, Ciha Karel, Ruzicka Dalibor,

Skarak Jiri

Inst : Not Given

Title : Microscopic Investigation of Metals at High Temperatures and

at Temperatures Below Zero

Orig Pub : Rozpr. CSAV, 1957, TV67, No 3, 67x., 11

Abstract : A devailed description of a microscope for the study of struc-

three at higher temperatures and at temperature below serv. The authors consider the problem of the effect of various physical and chemical factors on the structure and analyse in detail the theory of thermal etching of metals. A survey of work of the authors on the microscopy of steel; cast iron, copper and bronze at various temperatures is included.

Ribliography, 37 titles.

Card : 1/1

CZECHOSLOVAKIA/Solid State Physics - Fhase Transitions in Solids

Abs Jour : Ref Zhur - Fizika, No 11, 1958, No 25228

Author Rys Fremysl, Bozdek Ledislav, Ciha Karel, Ruzicka Daliber,

Skarek Jiri

Inst : Not Given

Title : Investigation of Metallic Structures at High and Low Ten-

poraturos.

Orig Pub: Acta techn. (Coskosl.), 1958, 3, No 1, 58-83

Abstract: A description is given of the apparatus and of a procedure from metallographic investigation of metals and alloys at high (~ 600°C) and low (-196°C) temperatures. The high-temperature microscopy makes it possible tocarry out direct observation of the specimen at high temperatures in vacuum or in a protective atmosphere. Heating of specimens is carried out by passage of electric surrent, or else by heat transfer

from the furnece (eight specimens can be heated simultaneously). In the former case the rate of heating is ~15000/minute, in

the second it is  $\sim 3000$ /minute; with an accuracy of  $\pm 0.5\%$ .

Card : 1/2

RYSP

CZECHOSLOVAKIA/Solid State Physics - Phase Transitions in Solids E-6

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27496

Author : Rys Promysl, Bezdek Ladislav, Ciha Karel, Ruzicka Dalibor,

Skarck Jiri

Inst : Not Givon

Title : Investigation of the Structure of Metals at High and Low

Temperatures. 3-4.

Orig Pub : Acta techn. (Ceskosl.), 1958, 3, No 2, 85-120

Abstract : Continuation of a previous work (Referat Zhur Fizika, 1958,

No 11, 25228). In this part a procedure is discussed for the manufacture of specimens with thermal etching and results of an investigation at high temperatures. A large number

of an investigation at high temperatures. In large men of microphotographs are included.

Card : 1/1

31

RYS, r.; -KI-WI-

TECHNOLOGY

periodicals: HUTNICKE LISTY Vol. 13, no. 12, Dec. 1958

KLESNIL, M.; RYS, P. Initial stages of fatigue in carbon steels, p. 1116

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1959, Unclass.

RYS, P.; PRIEYL, J.

 $P_{r}$  occeedings in committees in the 25th  $I_{n}$  ternational Foundry  $C_{o}$  ongress. p. 25.

SLEVARFNSTVI. Praha, Czechoslovakia, Vol. 7, no. 1, Jan. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959 uncla.

18.7110

Z/034/60/000/011/005/009 E073/E335

AUTHORS: TITLE:

Klesnil, Mirko and Rys, Premysl

Precipitation Hardening of Low-carbon Steels

PERIODICAL: Hutnické listy, 1960, No. 11, pp. 867 - 876

TEXT: For studying the structural changes in saturated alphairon, a low-carbon steel was chosen which contained 0.05% C and 0.0042% N. First, the steel was annealed at 1 000 °C for one hour and then it was allowed to cool slowly in the furnace for a duration of 24 hours. As a result of this a suitable grain size of 0.01 mm was obtained. The specimens were in the shape of 4 x 15 x 40 mm plates. These were annealed for one hour at 700 °C and then rapidly cooled in water at 20 °C. Following that, they were electrolytically polished in an electrolyte containing 225 ml. CH<sub>3</sub>COOH, 5 ml. H<sub>2</sub>O, 20 ml. HClO<sub>4</sub> and were etched for 30 sec by means of a 2% nital solution. Hardening was effected in the temperature range 23 - 128 °C; the specimens were heated in a thermostat in which the temperature was maintained with an accuracy of ± 0.05 °C. The hardness

Card 1/3

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Precipitation Hardening of Low-carbon Steels

was measured by the Vickers method and as the resulting values the arithmetic mean of 10 measurements was taken and the mean square error calculated, which varied between + 0.5 to 2 H units. The structural changes were studied on a Zeiss Neophot microscope and by means of a table electron microscope, Tesla BS-242, using two-stage colloidal carbon replicas which were shaded by means of gold and palladium. On the basis of the results, which are described in considerable detail, the following conclusions are arrived at: hardening of low-carbon steels with a small content of nitrogen proceeds by formation of the carbide phase. activation energy of the precipitation process has been determined and it was found that the value is very close to the activation energy of diffusion of carbon in alpha-iron, which indicates that carbon diffusion controls the progress of hardening of the investigated steel. The electron microscope enables following the changes in the structure of the solid solution of alpha-iron as a function of time and of the hardening conditions. Determination of the beginning of the precipitation itself, i.e. of the separation of non-coherent formations, is very difficult. Card 2/3

Z/054/60/000/011/005/009 E073/E335

Precipitation Hardening of Low-carbon Steels

Pronounced precipitates were determined only on the descending sections of the hardness curves; the ascending part and the peak part of the curves correspond to the pre-precipitation state of the nonhomogeneous solid solution or of coherent precipitates. After cold-working and combined hardening the hardness values were higher and the hardness and the structure were considerably more stable than in the case of ordinary hardening at a given elevated temperature and of hardening unworked (undeformed) steel. Both these phenomena are attributed to the considerable nucleation ability of the solid alpha-solution. There are 16 figures and 18 references: 3 international, 3 German, 9 English and 3 Czech.

ASSOCIATION:

Laborator pro studium vlastnosti kovu CSAV, Brno

(Laboratory for the Study of the Properties of

Metals, CSAV, Brno)

SUBMITTED:

September 20, 1960

Card 5/3

18.8200 also 2807

Z/034/61/000/008/003/005 E073/E535

AUTHORS:

Klesnil, Mirko, Docent Engineer Candidate of Science and Ryš, Přemysl, Docent Doctor Engineer Doctor of

Science

TITLE:

Precipitation in low carbon steel during cyclic

loading

PERIODICAL: Hutnické listy, 1961, No.8, pp.565-572

TEXT: Published results of P. Lukáš (Ref.ll: Symposium on Fatigue of Metals, Prague, 1960), N. Thompson and N.J. Wadsworth (Ref.13: Advances Phys. VII, 1958, p.72) and others indicate that during cyclic loading the range of diffusion of interstitial atoms increases considerably in Fe-C alloys. The specific fatigue characteristics of these alloys prove that diffusion of interstitial atoms is a process which controls the formation and development of fatigue caused breaks in the cohesion of the ferrite. The authors carried out experiments on two types of steel: a low carbon steel containing 0.05% C and 0.0042% N and the steel CSN 12010 Abstractor's Note: composition of this steel - 0.06 to 0.13% C, max 0.60% Mn, max 0.35% Si, max 0.04% P,

Card 1/9

Precipitation of low carbon ... 2/034/61/000/008/003/005 E073/ 55

max 0.04% S, max 0.07% P + S]. The low carbon steel was first annealed at 1000°C for one hour and then slowly cooled in the furnace for a period of 24 hours. By this treatment an almost equilibrium state was achieved with a suitable grain size (about 0.01 mm). From this material test specimens were made, Fig.1. Some of the specimens were left in the initial state and some were annealed at 700°C for one hour and then rapidly quenched in water at 20°C, All the specimens were ground and electrolytically polished prior to the tests. The surface zone, which was plastically deformed during machining and grinding, was removed by polishing off electrolytically a 50 µ thick layer. The specimens were then subjected to alternate bending at a frequency of 400/min on a test machine designed by the authors. Quenching of each specimen from a temperature of 700°C into water of 20°C was carried out in each case immediately prior to the mechanical tests. The plotted Wöhler curves are reproduced in Fig. 2 for the specimens in the annealed (curve 1) and the quenched (curve 2) states. The specimens from the steel CSN 12010 were first normalized (grain size about 0.02 mm) and then subjected to the Card 2/9

Precipitation in low carbon ...

Z/034/61/000/008/003/005 E073/E535

same machining and heat treatment as the low carbon steel specimens. Following that, they were subjected to alternate bending at a frequency of 1470/min on a Schenck-WEBI machine. The Wohler curves for the steel in the annealed state (curve 1) and in the quenched state (curve 2) are plotted in Fig. 4. Structural changes caused by the cyclic stresses and additional annealing were investigated on an optical microscope and on an electron microscope. In the latter, two-stage colloid-carbon replicas were used which were shaded with gold and paladium. For additional hardening after loading the specimens were heated in a thermostat where the temperature was maintained with an accuracy of +0.05°C. For the hardness values, the arithmetic average of ten measurements was taken and for this average the mean square error was calculated. For the macrohardness it varied between  $\pm 0.5$  and 2 H<sub>w</sub>; for the microhardness it varied between  $\pm 1$  and 3.5 H<sub>v</sub>. The dependence of the hardness H<sub>V</sub> on time (min) on quenched specimens of the steel with 0.05% C exposed to the temperatures 23, 97 and 128°C is characteristic for the precipitation process On cyclic loading a considerable increase in hardness (Fig. 5). Card 3/9

Precipitation in low carbon ...

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of the ferrite grains affected by alternate plastic deformation was observed after a .elatively short time. Fig.7 shows the microhardness of the deformed grains of the 0.05% C steel water quenched from 700°C as a function of the number of cycles for a stress amplitude of  $\sigma_{\rm a}=27.8~{\rm kp/mm}^2$ . Curves 1 and 1a represent the microhardness of grains subjected to alternate plastic deformation. The curves 2 and 2a represent the microhardness of undeformed grains. Curve 3 is the microhardness achieved by direct hardening at 97°C (righthand plot - time in hours). A similar increase in hardness was observed for  $\sigma_{\rm a}=\pm30.0~{\rm kp/mm}^2$ . The results indicate that the hardness increases the more the higher the stress amplitude. After fracture, all the specimens used for obtaining the Wohler curves were subjected to hardness tests. It was found that with decreasing stress amplitude the hardness values of the loaded and non-loaded sections get closer which means that the intensity of precipitation hardening decreases with decreasing stress amplitude. The structure of the slip bands was studied on specimens loaded with  $\sigma_{\rm a}=31.5~{\rm kp/mm}^2$ , i.e. 3.28% above the fatigue limit. It was found that low frequency cyclic loading of

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Precipitation in low carbon ...

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a saturated solid solution of a-iron brings about precipitation decomposition and formation of a carbide phase in the slip bands even without any increase in the temperature. The precipitation results in a pronounced increase of the fatigue limit as compared to annealed steel which is almost in the equilibrium state. Similarly to precipitation of carbides during annealing at 97 and 128°C, carbides form on the ascending branch of the hardness curve which approaches asymptotically the limit value. The increase in hardness is most probably due to precipitation hardening in the slip bands. The increase in hardness caused by additional annealing at 97 and 128°C is due mainly to the undeformed matrix. The hardness curves and the morphological appearance of the structure correspond to combined hardening. The fact that the character of the precipitation decomposition of the saturated a-solid solution during static and during cyclic stresses differs indicates specific properties of the structure of permanent slip bands, which form during alternating strain in ferrite grains, which are the nuclei for fatigue breaks in the cohesion. There are 17 figures and 21 references: 5 Soviet-bloc and 16 non-Soviet-bloc. The four latest English-language references read as follows: Card 5/9

Precipitation in low carbon ...

Z/034/61/000/008/003/005 E073/E535

H.A.Lipsitt and G.T.Horne, ASTM 57/1957), p.587; J.C.Levy and G.M.Sinclair, ASTM 55(1955), p.866; N.Thompson and N.J.Wadsworth, Advances Phys. VII (1958) p.72; P.J.E.Forsyth, Proc.Roy.Soc. A. 242 (1957), p.198.

ASSOCIATION: Laborator pro studium vlastností kovů ČSAV, Brno

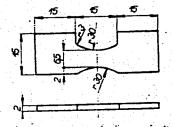
(Laboratory for the Study of the Properties of Metals,

ČSAV, Brno)

SUBMITTED:

February 8, 1961

Fig.1



Card 6/9

RYS, P; KLESNIL, M.; CERNOHORSKY, M.; HABROVEC, F.

Interpretation of the results of the study of carbon steel extraction replicas. Hut listy 19 no.5:349-358 My \*64

1. Institute of Metal Properties, Czechoslovak Academy of Sciences, Brno.

ACC NRI AP7003629

SOURCE CODE: CZ/0065/66/000/006/0505/0518

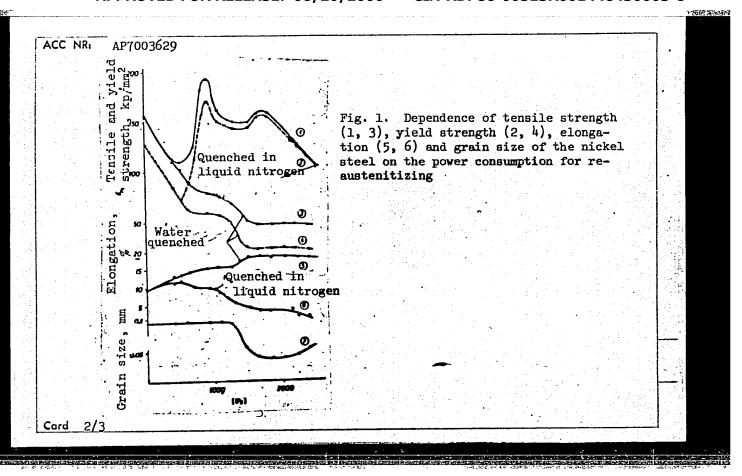
AUTHOR: Habrovec, Frantisek; Kounicky, Jan; Rys, Premysl; Skarek, Jiri

ORG: Institute of Metal Properties, CSAV, (Ustav vlastnosti kovu CSAV)

TITLE: Nature of the refining of Fe-Ni-C alloy martensite by repeated austenitizing

SOURCE: Kovove materialy, no. 6, 1966, 505-518

TOPIC TAGS: high nickel steel, steel mechanical proeprty, steel heat treatment, martensite, austenitic steel, tensile strength, yield stress, clongation ABSTRACT: A series of experiments has been performed to determine the effect of repeated austenitizing with rapid heating on the mechanical properties and the morphology of martensite of a nickel steel (0.42% carbon and 24.5% nickel; Ms temperature-36°C). Steel specimens 1.7 mm thick, 3.4 mm wide, and 80 mm long were austenitized at 1050°C for 30 min, quenched in liquid nitrogen, reheated by passing electric current for various periods of time (to reach a certain temperature which, however, was not measured directly), water quenched and refrigerated in liquid nitrogen for 1.5 hr. The dependence of mechanical properties on the power consumed for reheating (i.e., the austenitizing temperature) was found to follow a complex pattern (see Fig. 1). The best combination of properties, a tensile strength of almost 200 kp/mm<sup>2</sup>, a yield strength of about 160 kg/mm<sup>2</sup>, a yield strength of about 160 kg/mm<sup>2</sup> and an elongation of about 9%, was obtained at a power consumption of 1000 w. The structure of the alloy treated under these conditions consisted mainly of a fine acicular martensite. With increasing power consumption, the acicular martensite UDC: none Card 1/3



second maximu	m on curve	T). OLIG. 8	lar martensite, which has lower strength an Orig. art. has: 14 figures.					
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ACC NR: AP6026376 (N) SOURCE CODE: GE/0030/66/015/001/0071/0082

AUTHOR: Lukas, P.; Klesnil, M.; Krejci, J.; Rys, P.

ORG: Institute of Metallurgy, Czechoslovak Academy of Sciences, Brno

TITLE: Substructure of persistent slip bands in cyclically deformed copper

SOURCE: Physica status solidi, v. 15, no. 1, 1966, 71-82

TOPIC TAGS: deformed copper, polycrystalline copper, dislocation distribution, dislocation density, surface extrusion, slip, slip band

ABSTRACT: The <u>dislocation distribution on</u> the surface layer of cyclically deformed specimens of polycrystalline copper is studied by measn of transmission electron microscopy of thin foils, both parallel and nonparallel to the surface. The distribution within the surface layer and near the persistent slip bands is found to differ considerably from that inside the specimens. The persistent slip bands consist of zones of alternately high and low dislocation density. The zones of density are linked together at a particular depth below the surface. The zones of

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Card 2/2								

SENTEK, W.; RYS, R., doc. dr.; BACZKOWSKA, H.

Digestibility of the nutritive compounds of standard food mixture for broilers and effect of some additions on the nitrogen balance. Zesz probl post nauk roln no.54:31-36 '64.

1. Department of Animal Feeding of the Institute of Zootechnics, Krakow. Head of Department: Dr.Rys.

That i of a new merica for not interior developing by [inz. . . . ] Rinnard divider, [ins.] Stefan indecireza, Reviewed by R. Rya. Clay was 12 to 8.577 [inc.]

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"When if demonstrated in fureign energy resing for spare photoelastometry" by [inplotomany fysik-chantk] Even Augura. Puvlewed by R. Rys. Ibid.: 573

RYS R.

POLAND / Farm Animals. Small Horned Stock.

Q-2

Abs Jour: Rof Zhur-Biol., No 23, 1958, 105695.

Author : Rys. R., Gorski, L., Styczynski, H.

Inst: Not given.
Title: Studies on the Formation of Ammonia in the Rumen of Sheep Maintained on Different Rations.

Orig Pub: Acta Biochim. polon., 1957, 4, No 3, 147-164.

Abstract: The ammonia content in the rumen of sheep fed succulont green rations supplemented with urea is higher than in the rumens of sheep which are given rations composed of hay, corn and oats. When sheep are fed green rations, ammonia passes from the rumen into the blood. If the ammonia content in the rumen is high, a high content of ammonia and urea in the blood is also observed.

tudy of cilumin pistons for internal combustion engines. p. 289

SLETARENSTWI ( 'inisterstvo strojirenstvi a Ministerstvo hutniho prumyslu a rudnych dolu), Vol. 4, No. 19, Oct. 1956

Fraha, Czechoslovskia

SCURCE: East European List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

RYS, R.; STYCZYNSKI, H.; WCISIO, H.

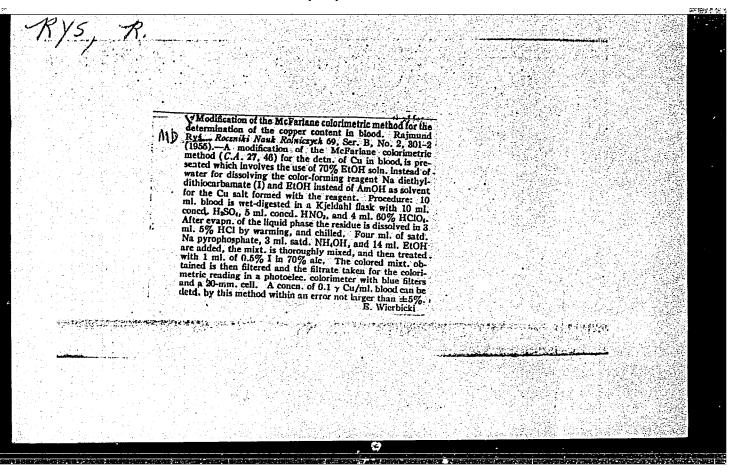
Effect of certain yeast cultures on lowering of ammonium nitrogen in rumen contents. Acta physiol.polon.ll no.5/6:876-878 '60.

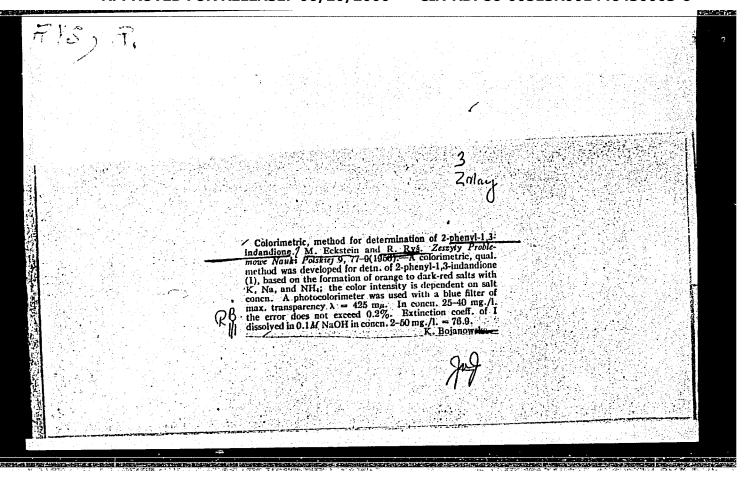
1. Z Pracowni Biochemicznej Instytutu Zootechniki, Kierownik: prof. dr Z.Ewy.

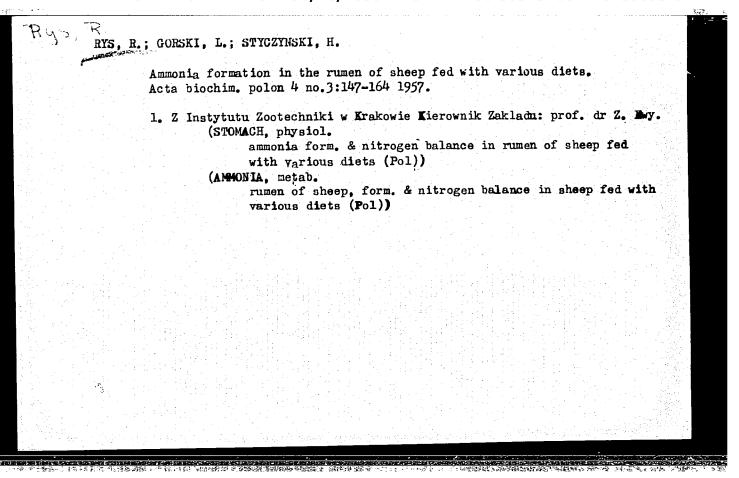
(YEASTS)

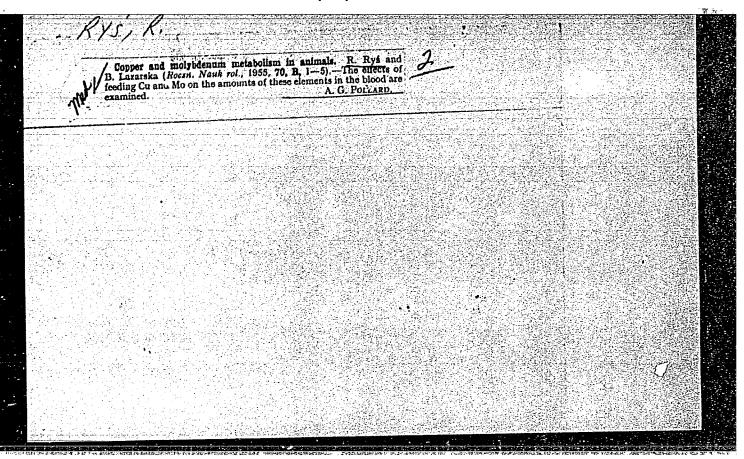
(STOMACH physiol)

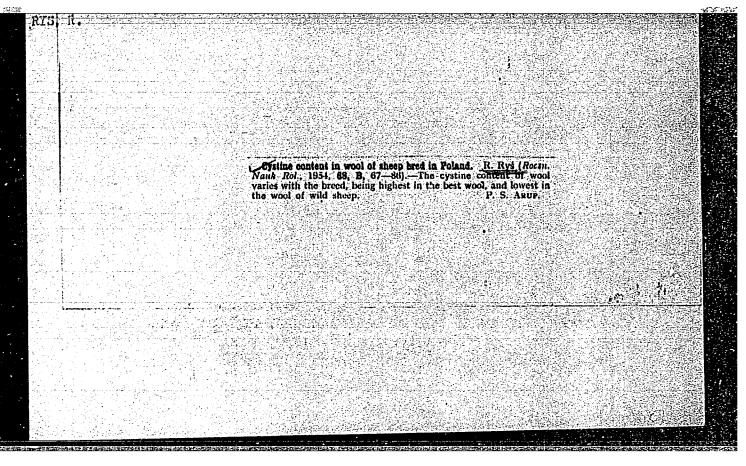
(NITROGEN)



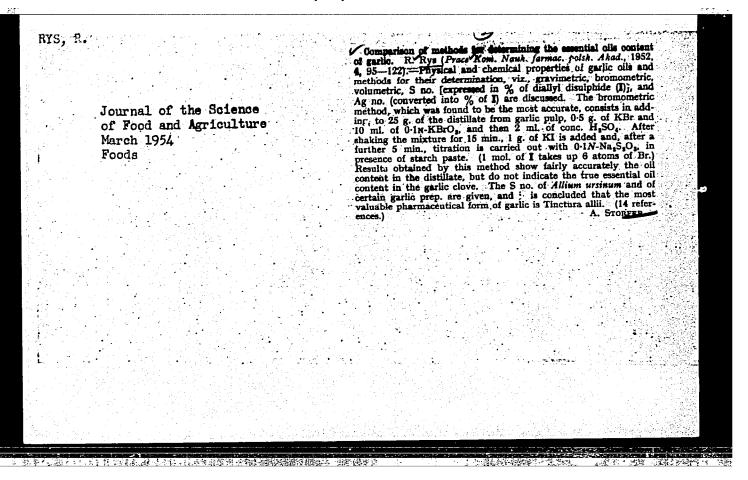








RYS, R.	POTAND	
	"Eine Studie uber die elektrolytische Gewinnung des Strychnins aus Semen	
	Strychni," by Von J. Deren und R. Rys. Acta Polon, pharmac. 12, Heft 1,33-38 (1955).	
		ı
SOURCE:	Pharmazeutische Zentralhalle (für Deutschland), May 1956, Unclassified.	
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	마르크 (1985년 - 1985년 - 1 1987년 - 1987년 - 1987년 1987년 - 1987년	
		ever.



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RYS, R.			
	continual traditional in the analysis of		
	Comparative studies of methods used in the analysis of oils from Allium suffram. R. Ryj. Polsky Akad, Uniterstudies, Prace Kombii Nack Form. Bisselinous Pharm. 4, 95-122(1952).—The bromometric method of detu. has	,	
	been found to be the most accurate. 14 references.  Howard A. Ackermanis	o- gad	
		ing and grown and the second	
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RY3, R.; CORSKI, L; STYCZYNSKI, H.

Research on the appearance of ammonia in the rumen of sheep fed with various diets.

P. 147. (ACTA BIOCHIMICA POLONICA) (Warszawa, Poland) Vol. 4, no. 2, 1957

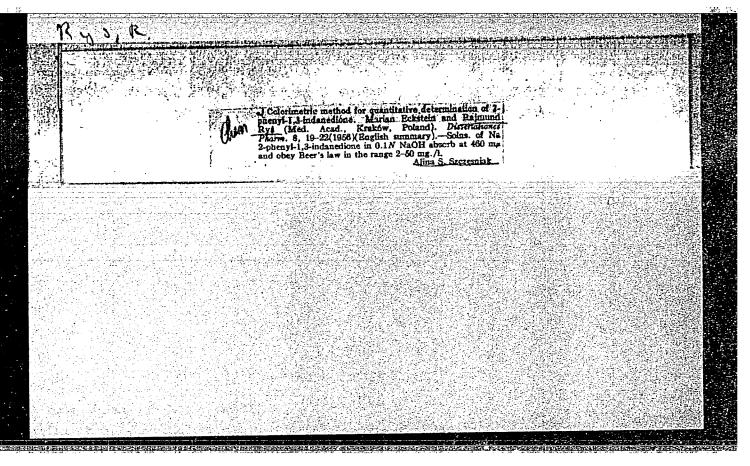
SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

DEREN. J.; RYS. R.

Investigation on electrodialytic isolation of strychnine from Strychnos seeds. Acta Poloniae pharm. 12 no.1:33-38 1955.

1. 2 Instytutu Zootechniki. Centralne laboratorium, Krakow.

(STRYCHNIME, determination, electrodialytic isolation from nux vomica)

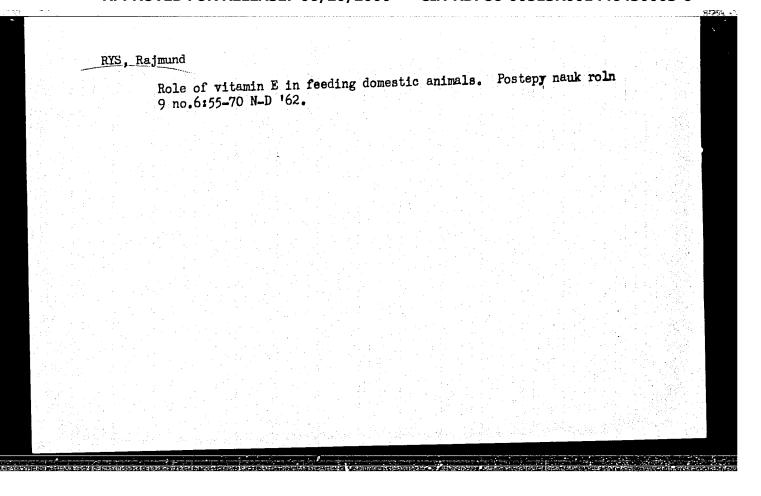


RYS, Rajmund, doc. dr; SOKOL, Joanna

Studies on some biochemical indexes of protein deficiency in sheep. Zesz probl post nauk roln no.41:35-41 '63.

Studies on the use of ammoniated apple pulp in feeding sheep. Ibid. :115-120

1. Pracownia Biochemiczna, Instytut Zootechniki, Krakow. Kierownik: doc. dr R. Bys i Katedra Zywienia Zwierzat, Wyzsza Szkola kolnicza, Krakow Kierownik: doc. dr S. Trela.

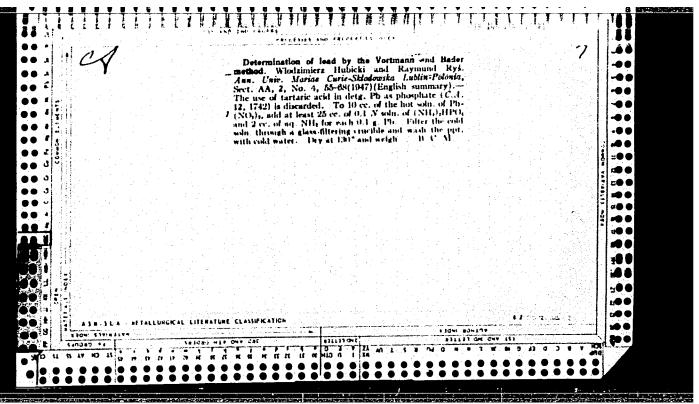


Por also

RYS, R. (Krakow)

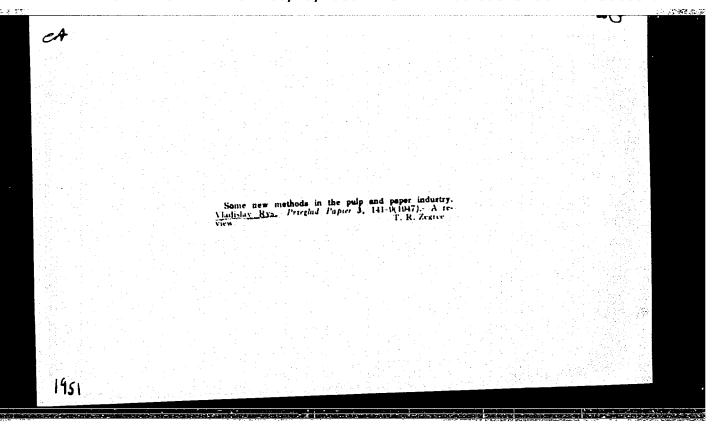
Studies on hypocupremia in cattle in certain regions of Poland. Rocz nauk roln wet 70 no.1/4:130-132 '60. (EEAI 10:9)

APPROVED FOR RELEASE  $_{t}$   $_{06}$   $_{20}$   $_{20}$   $_{20}$  CIA-RDP86-00513R001446430003-6"



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MECOKS and Periodicals", F. S. (TECHNICKE NOVINY, Vol. 2, No. 15, Aug. 195%, Fraha, Czechoslovskie)

SO: Fonthly List of East European Accessions, (EFAL), IC, Vol. 4, No. 1, Jan. 1955, Uncl.
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L 52101-65 EFF(c)/EMT(m)/EMP(j)/T Pc-h/Pr-h RM

ACCESSION NR: AP5015271 UR/0286/65/000/009/0051/0051

AUTHORS: Arkin, Ye.-S. A.; Chernyy, V. Ya.; Vnukovokiy, Ye. T.; Sorokin, N. A.; Kuvaldin, A. I.; Saryaeva, E. G.; Ryeakov, C. V.; Vasilevakiy, P. F.; Stolypin, A.

B.; Fautov, A. V.

TITLE: A turbomolocular high-vacuum pump. Class 27, No. 170609 30

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 51

TOPIC TAGS: vacuum pump, turbomolocular vacuum pump

ABSTRACT: This Author Certificate presents a turbomolecular vacuum pump with a 2-atrean rotor and an electric drive mounted in the fore-vacuum clamber (see Fig. 1 on the Enclosure). To increase ito reliability, efficiency, and the power coefficient, the electric drive consists of two auxiliary high-frequency electric motors of equal power, mounted on the shaft brackets. These motors may be switched in to work together in accelerating the shaft up to its full rpm in a desired period of time, whereupon one of them is disconnected. To strengthen the insulation and to diminish the gas separation, the winding and the core of the electric motor stators are conteally it han appoxy replicativith a filler of low vapor tension. To diminish the vibrations and to increase the reliability of bearing supports, the latter are

Cord 1/3

RYSAKOV,		
	Under the control of trade unions. Okhr. truda i sots. strakh. 4 no. 2:5-7 F 61. (MIRA 14:2) (Industrial hygiene-Study and teaching)	

	Experience of the best should be accessible to all enterprises.  Okhr.truda i sots.strakh. 3 no.3:41 Mr '60. (MIRA 13:7)  (Moscow Province—Industrial safety)	
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MISKKU	v, I.	
**************************************	Let's reorganize industrial hygiene on a scientific basis.  Okhr.truda i sots. strakh. no.5:28-30 My '59.	
	(Industrial hygiene) (MIRA 12:9)	
	회사 전략이 살리 그림으로 있는 무역회들은 기계 생각의 사실학을 들하는 것 같아요?	

BELORUSETS, B.M.; SHTOL'DER, L.V., inzh., retsenzent; RYSAKOV,
I.M., retsenzent; EROMLEY, M.F., kand. tekhn. nauk, red.

[Labor safety in the machinery industry] Bezopasnost' truda
v mashinostroenii. Moskva, Mashgiz, 1963. 194 p.

(MIRA 18:3)

VOLKOV, Ye.V., inzh.; RYSAKOV, N.F., dotsent; SHALAYEV, N.B., inzh.

Using cyclene.furnaces with liquid.slag removal for combustion of .
milled peat. Izv. vys. ucheb. sav.; energ. 2 no.2:79-86 F '59.

(MIRA 12:7)

1.Ural'skiy politekhnicheskiy institut imeni S.M. Kirova. Predstavlena kafedroy promteploenergetiki.

(Furnaces) (Peat)

RYSAKOV, Ivan Mikhaylovich; DENISOVA, I.S., redaktor; KIRSANOVA, N.A.,

tekhnicheskiy redaktor

[Organization of safety measures in industry] Organizatsila bezopasnoi raboty na proizvodstvennom uchastke. [Moskva] Izd-vo VTsSPS Profizdat, 1956. 45 p.

(Industrial safety)

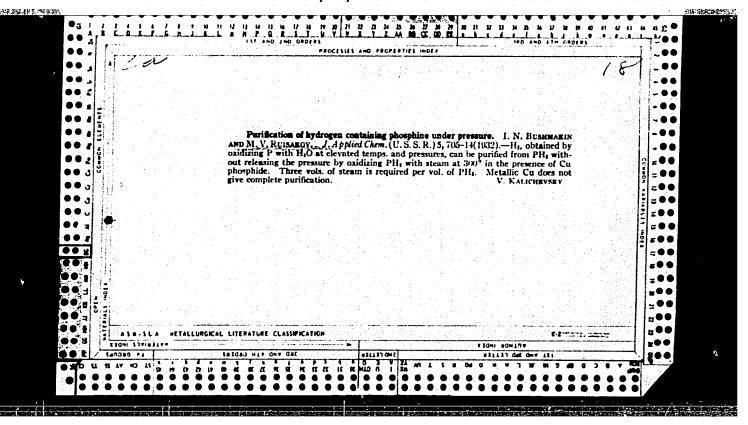
(MIRA 9:10)

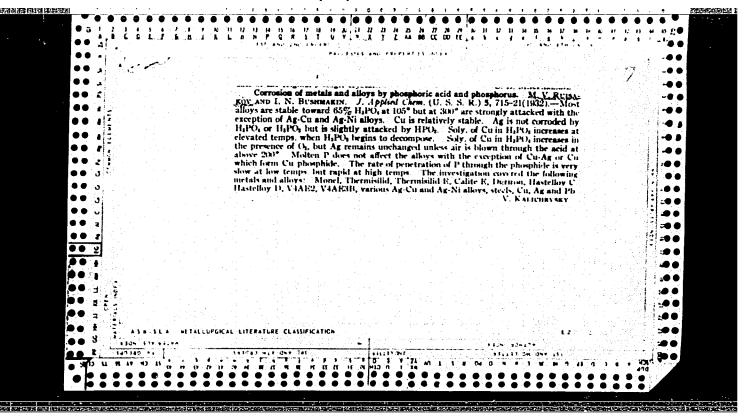
ROGOV, S.P.; RYSAKOV, M.B.; FERSHT, I.Ya.

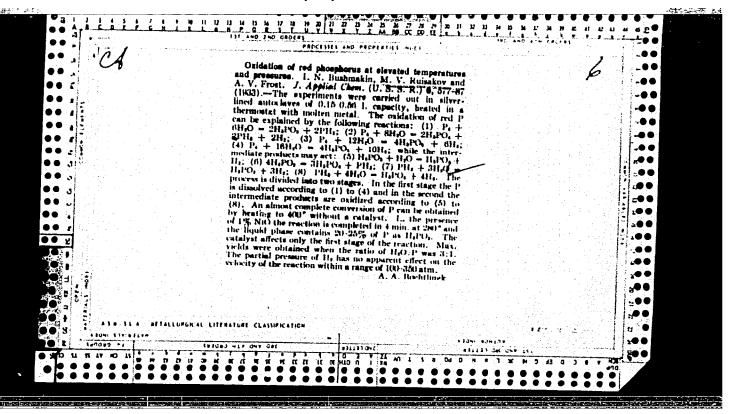
Hydrogenent catalysts regenerated by hydrogen. Khim,i tekh, topl.i masel 3 no.10:29-33 0 '58. (MIRA 11:11)

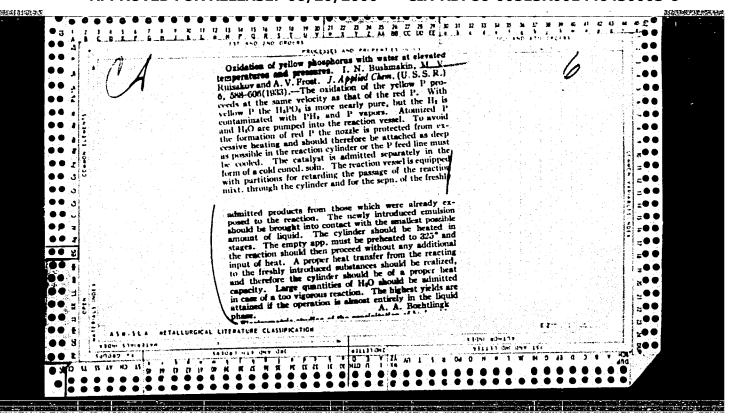
1. Vaesoyuznyy nauchno-issledovatel'skiy institut neftyanoy promyshlennosti.

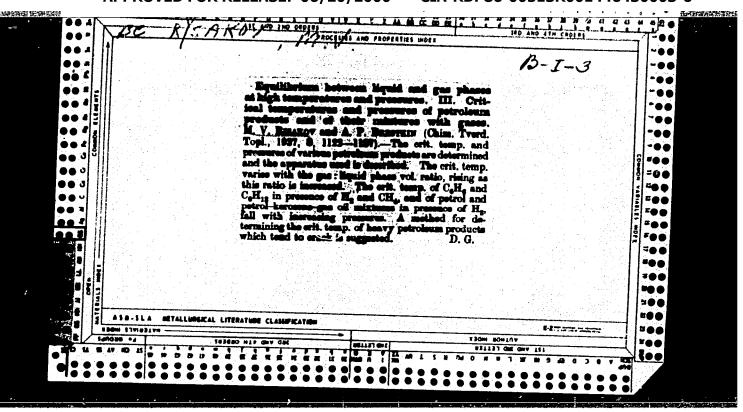
(Gatalysts) (Hydrogen)

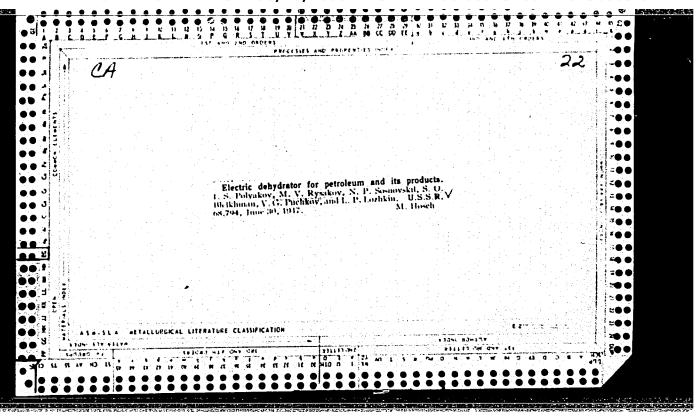












DRUZHININA, A.V.; RYSAKOV, M.V.; GOL'DSHTEYN, D.L.; NIKOLAYEVA, V.G.; MYACHINA, M.S.; RUGUV, S.P.

COL'DSHTEYN, D.L.; RYSAKDY, M.V.; SKRIPNIK, Z.M.; ROGOV, S.P.

Production of transformer and turbine oils by hydrogenation of sulfur-bearing petroleum products. Trudy VNII NP no.7:245-253 (MIRA 12:10)

(Petroleum products) (Hydrogenation)

SOV/65-58-1046/15

AUTHORS:

Rogov, S. P. Rysakov, M. V. and Fersht, I. Ya.

TITLE:

Regeneration of Hydrogenation Catalysts with Hydrogen (Regeneratsiya gidriruyushchikh katalizatorov vodorodom)

PERIODICAL:

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 10,

pp 29 - 33 (USSR)

ABSTRACT:

During the hydrogenation of crude petroleum, coke is deposited on the catalyst. Coke formation is most intensive during the first stage when the fresh catalyst is used; it then slows down and in some cases disappears almost completely. The curve in Fig.1 shows the rate of coke formation on the hydrogenation catalyst. Coke formation is slowed down when the partial pressure of hydrogen is lowered, or when the contact time of the raw material with the catalyst is decreased. Catalytic processes for the manufacture of motor oils from petroleum, in the presence of hydrogen, are generally carried out at temperatures of 375° to 500°C. Coke which is deposited on the catalyst is not completely pure carbon, but hydrocarbons which are hydrogenated somewhat easier than the pure carbon. Tests showed that the catalysts can be regenerated by using hydrogen. Oxide catalysts, prepared either from aluminium silicates or aluminium

Card 1/3

SOV/65-58-10-6/15

Regeneration of Hydrogenation Catalysts with Hydrogen

oxides, were tested. Coking of these catalysts occurred during the processing of heavy sulphur-distillate fractions at 450°C and at low partial hydrogen pressure, or in the absence of hydrogen. In some cases catalyst samples were tested which had been used during the processing of heavy raw materials at high hydrogen pressure. They were regenerated in a hydrogen current in a continuous high pressure plant at temperatures of 400 to 475°C, and at pressures of hydrogen up to 300 atms (Fig.2). The effect of the temperature on the rate of regeneration of the catalyst was also investigated. The temperature coefficient and activation energy at 450 to 475°C equalled Ecal - 17,500 and Kt - 1.18. The partial pressure of hydrogen influences inversely the rate of coke hydrogenation (Table 1). It was also observed that the rate of hydrogenation of coke is inversely proportional to the mixture of hydrogen and hydrocarbon gases during the treatment of the coked catalyst (Table 2). It was found that a catalyst used during 11 0 0 -hour destructive hydrogenation of the 320 to 450°C petroleum fraction at 450°C, at a pressure of 300 atms, contained 5.5%

Card 2/3

SOV/65-58-10-6/15

Regeneration of Hydrogenation Catalysts with Hydrogen

coke. This is approximately the same quantity as the amount of coke on the catalyst which was processed with a mixture of hydrogen and vapours of the 320 to 450°C fraction. The rate of hydrogenation is also inversely porportional to the temperature. Coke deposited during a high pressure process is hydrogenated considerably easier than coke formed at the same temperature, but in the absence of hydrogen. The method was tested under laboratory conditions during the destructive hydrogenation of heavy gas-oil fractions and satisfactory results were obtained. There are 2 Tables, 3 Figures and 11 References: 10 English and 1 German.

ASSOCIATION: VNII NP

Card 3/3

RYSAKOV, M.V

FROST, Andrey Vladimirovich, prof. [deceased]. Prinimali uchastiye:

BUSHMAKIN, I.H.; VVEDENSKIY, A.A.; GRYAZNOV, V.M.; DEMSNT'YEVA,

M.I.: DINTSES, A.I.; DOBRONRAVOV, R.K.; ZHARKOVA, V.R.; ZHERKO,

A.V.; IPAT'YEV, V.H.; KVYATKOVSKIY, D.A.; KOROBOV, V.V.; MOOR,

V.G.; NEMTSOV, M.S.; RAKOVSKIY, A.V.; REMIZ, Ye.K.; RUDKOVSKIY,

D.M.; RYSAKOV, M.V.; SEREBRYAKOVA, Ye.K.; STEPUKHOVICH, A.D.;

STRIGALEYA, N.V.; TATEVSKIY, V.M.; TILICHEYEV, M.D.; TRIFEL',

A.G.: FROST, O.I.; SHILYAYEVA, L.V.; SHCHEKIN, V.V., DOLGOPOLOV,

N.N., SOSTAVITEL'; GERASIMOV, Ya.I., otv.red.; SMIRNOVA, I.V., red.;

TOPCHIYEVA, K.V.; YASTREBOV, V.V., red.; KONDRASHKOVA, S.F., red.;

izd-va; LAZAREVA, L.V., tekhn.red.

[Selected scientific works] Izbrannye nauchnye trudy. Moskva, Pzd-vo Mosk.univ., 1960. 512 p. (MIRA 13:5)

 Chlen-korrespondent AN SSSR (for Gerasimov). (Chemistry, Physical and theoretical)

#### CIA-RDP86-00513R001446430003-6 "APPROVED FOR RELEASE: 06/20/2000

5/081/61/000/011/029/040 B103/B202

AUTHORS:

Levina, M. I., Mushenko, D. V., Rysakov, M. V.

TITLE:

Catalytic hydrogenation of sulfurous gas oils of catalytic and thermal cracking for the production of a Diesel oil and

a raw material for catalytic clacking

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 11, 1961, 481, abstract 11M178 (11M178). ("Tr. Vses. n.-i. in-t neftekhim.

protsessov", vyp. 3, 1960, 178 - 182)

TEXT: It was found that by hydrogenating a mixture of two kinds of the gas oil of catalytic cracking and the Diesel oil (from Devonian petroleum) in the ratio 1: 1 a high-quality summer Diesel oil can be obtained by means of a Co-Mo catalyst at 30 atmospheres excess pressure. When hydrogenating the gas oil fractions 200 - 350°C and 215 - 490°C of catalytic cracking and of the cracking residue (from the same petroleum) raw materials for catalytic cracking can be obtained at 50 - 100 atmospheres excess pressure whose properties are superior to those of raw materials Abstracter's note: Complete transobtained by direct distillation. lation. Card 1/1

30219 5/081/61/000/019/063/085 B117/B110

11.9100

AUTHORS: Druzhinina, A. V., Gol'dshteyn, D. L., Rysakov, M. V.

TITLE Production of low-solidifying industrial oils and motor oils from various sulfuric raw materials by hydrogenation and

deparaffination with carbamide

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 420, abstract

19M147 (Sb. "Khimiya sera- i azotorgan. soyedineniy,

soderzhamchikheya v neftyakh i nefte-produktakh", Ufa, v. 3,

1960, 377 - 387)

TEXT: It was found that industrial oils and motor oils can be produced by hydrogenation and deparaffination of primary and secondary distillates with carbamide (raw material: wide distillation fraction from Romashki petroleum at 320° - 460°C, gas oil fraction obtained by catalytic cracking of heavy distillation material of the same petroleum at 200 - 485°C, and a fraction obtained by catalytic cracking of masut at 200 - 500°C). The chemical-technological nature of the process is due to the action of hydrogen upon high-molecular substances containing sulfur, nitrogen, and

Card 1/2

#### "APPROVED FOR RELEASE: 06/20/2000 CIA-RD

CIA-RDP86-00513R001446430003-6

30219 S/081/61/000/019/063/085

B117/B110

Production of low-solidifying ...

oxygen in the distillates at high temperatures accompanied by their decomposition under the formation of low-molecular hydrocarbons, hydrogen sulfide, and other compounds. At the same time, unsaturated hydrocarbons are converted into saturated ones, the content of methane-naphthene hydrocarbons increases and that of tar and polycyclic aromatics is reduced. The content of high-quality oil components is not affected by hydrogenation. The deparaffination of hydrogenated distillates with carbamide is practically accompanied by a complete removal of largely normally structured paraffins. The solidifying point is thus considerably reduced. A diagram of oil production is given. Abstracter's note; Complete translation.

Card 2/2

S/065/60/000/007/004/008/XX E194/E484

AUTHORS: Levina, M.I., Rysakov, M.V. and Tammik, M.E.

TITLE: Catalytic Hydrofining of Diesel Fuel Fractions

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.7,

pp,6-11

Hydrofining is the best way of removing sulphur compounds TEXT: from diesel fuel fractions. This article gives the results of an investigation of hydrofining of diesel fuel fractions on an aluminium-cobalt-molybdenum catalyst with various operating The initial characteristics of the diesel fuel used conditions. The hydrofining circulation system is are given in Table 1. illustrated schematically and is described and the operating Experimental results of hydrofining diesel conditions are stated. fuels under various conditions are given in Table 2. The data show that as the temperature is raised from 350 to 400°C, the degree of sulphur removal increases and at 400°C and a pressure of 15 atm, the degree of desulphurization is high. If the feed contains a high resin content the activity of the catalyst is reduced by the formation of coke on the catalyst. The catalyst can be regenerated A sample of catalyst was regenerated by oxidizing the coke. Card 1/2

S/065/60/000/007/004/008/XX E194/E484

Catalytic Hydrofining of Diesel Fuel Fractions

12 times and was still efficient afterwards. Data on the hydrofining of diesel fuel with a high resin content is given in Table 3. The results of balance tests given in Table 4 show that at a temperature of 400°C and a pressure of 15 atm, the yield of refined diesel fuel is 98%. Data on the analysis of circulating gas are given in Table 5. The results of hydrofining diesel fuel with technical hydrogen containing from 0.6 to 1.5% of carbon dioxide are given in Table 6, and it will be seen that this does not reduce the activity of the catelyst. Characteristics of hydrofined diesel fuel are given in Table 7; diesel fuel of the required properties was obtained from a devonian crude by hydrodesulphurizing at a temperature of 400°C and a pressure of 15 atm. A number of different catalysts were made up containing varying amounts of cobalt and molybdenum, the carrier used was aluminium oxide. The results of activity tests of the various catalysts are given in Table 8. It is found that catalyst containing 3.2% cobalt and 4.8% molybdenum is vary active. are 1 figure, 8 tables and 1 English reference. ASSOCIATION: VNIINeftekhim Card 2/2

S/065/61/000/004/003/011 E194/E284

AUTHORS:

Rogov, S. P., Danilevich, A. F., Gol'dshteyn, D. L.,

Rysakov, M. V. and Agafonov, A. V.

TITLE:

Hydrofining of Lubricating Oils

PERIODICAL:

Khimiya i tekhnologiya topliv i masel, 1961, No. 4,

pp. 23-27

TEXT: Hydrofining is under consideration as a replacement for earth treating in finishing of solvent raffinates. This article describes tests on the hydrofining of distillates (spindle oil and machine oil Type AC-5 (AS-5)) and residual de-waxed phenol raffinates of the Novokuybyshevsk NPZ. The hydrofining was carried out on a large laboratory pilot plant with gas circulation, finishing with steam stripping. A study was first made of the influence of pressure and it was concluded that the pressure of 40 atmospheres, the highest tried, was the best in respect of improving the viscosity index, reducing the coke number and sulphur content and improving the colour of the finished oils. The ratio of volumes of oil per hour to volume of catalyst ranged from 1 to The influence of treatment temperature was then studied using Card 1/5

S/065/61/000/004/003/011 E194/E284

Hydrofining of Lubricating Oils

on the one hand an aluminium-cobalt-molybdenum catalyst and on the other an aluminium-molybdenum catalyst. These tests were made with machine oil Type AS-5 at a total pressure of 40 atm and a delivery rate by volume relative to catalyst of 3 l/hours and a gas circulation rate of 300 litres at n.t.p. per litre of feed at temperatures of 275, 300, 325 and 350°C. It was shown that increasing the temperature has much the same effect as decreasing the feed rate. As a rule increasing the temperature somewhat increases the pour point which rose from -18°C with a treatment temperature of 350°C. Tables are then given of the characteristics of hydrofined spindle (Table 3) and residual (Table 4) oils under optimum process conditions. Table 3 was obtained with an aluminium-molybdenum catalyst and Table 4 with aluminium-cobalt-molybdenum catalyst.

Card 2/5

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E194/E284		1	- "		3.37	

Hydrofining of Lubricating Oils

	Feed	Treated	0il
		<u>300°</u>	325°
Viscosity centistokes:  at 50°C at 100°C  Viscosity index  Pour point °C  Flash point °C  Colour NPA  Sulphur content % weight  Coke No. % weight  Corrosivity Pinkevich gms/m  Yield % weight	19.03 4.87 92.3 -14 190 2.5 0.96 0.03 6.65 100.0	18.74 4.80 93.8 -13 200 1.5 0.92 0.02 2.13 99.4	18.25 4.77 95.7 -12 198 1.5 0.86 0.01 - 99.1

Card 3/5

S/065/61/000/004/003/011 E194/E284

Hydrofining of Lubricating Oils

Table 4

	Feed	Treated Oil
Viscosity centistokes: at 50°C at 100°C	159.35 20.98 85.1	153.87 20.80 88.4
Viscosity index Pour point °C	-10	-8
Flash point °C	246	270
Colour NPA	6.5	3.5
Sulphur content % weight	1.03	0.81 0.27
Coke No. % weight	0.38 100	99.1
Yield % weight	100	)

The hydrogen consumption in treating the distillate oil was 0.13% weight and in treating the residual oil 0.15% weight. The results of hydrofining and earth finishing are then compared and it is Card 4/5

S/065/61/000/004/003/011 E194/E284

Hydrofining of Lubricating Oils

shown that hydrofinishing gave the greater yield, about 2% on distillates and 4% on residual lubricants. The hydrofined oils have lower coke number but there is some loss in the viscosity and a slight increase in the pour point. Hydrofining has little influence on the chemical composition of the lubricants. The influence on the chemical composition of the lubricants. The increase in viscosity index on hydrofining mainly results from increase in viscosity index on hydrofining mainly results from newly formed paraffinic, naphthenic and light aromatic hydrocarbons. Preliminary technical and economic calculations show that hydrofinishing of lubricants is promising as a replacement for earth treatment. There is not much to choose between the performance of the two catalysts tested but the aluminium-molybdenum catalyst is cheaper. Full scale tests carried out at the Novokuybyshevsk NPZ confirmed the laboratory test results of the VNII NP. There are 6 tables and 2 non-Soviet references.

ASSOCIATION: VNII NP

Card 5/5

ACC NR: AP6032842

(A, N)

SOURCE CODE: UR/0065/66/000/010/0015/0018

AUTHOR: Pereshigina, I. Ya.; Agafonov, A. V.; Rysakov, M. V.; Osipov, L. N.; Rogov, S. P.

ORG: VNIINP

TITLE: Study of the fundamentals of hydrocracking of a heavy distillate with high sulfur content

SOURCE: Khimiya i tekhnologiya topliv, i masel, no. 10, 1966, 15-18

TOPIC TAGS: petroleum refinery product, petroleum refining gasoline, liquid fuel, diesel oil, desulfurization

ABSTRACT: A study of hydrocracking of high-sulfur vacuum distillate (2.16 wt % S, 0.1 wt % N, 0.9163 specific gravity, and containing 50% aromatics and 50% paraffins and naphthenes) over Co-Mo/alumina catalyst at 50-250 atm, 380-425°C, 0.5-6.0 hourly volume space velocity, and a hydrogen to feed volume ratio of 300-1500 was made. The object of the work was to define the optimal process condition for the greatest yield of low-sulfur diesel oil fraction. It was found that in the 600-1500 range of H2:feed ratio, the H2:feed ratio did not affect the hydrocracking process. It was also found that the optimal conditions leading to 30-45% yield of low-sulfur diesel oil and very low yields of gas and gasoline fraction are: 50 atm, 400-425°C, and 1-2 hourly volume space ve-

UDC: 665.534:665.521.4

**Card 1/2** 

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В	CODE:	07,21/	SUBM	DATE :	none										
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RYSAKOV, van Mikhaylovich; RUDNEV, A.P., red. [Providing for safe working conditions in industry]
Obespechenie bezopasnykh uslovii truda na proizvodstve.
Moskva, Izd-vo "Metallurgiia," 1964. 39 p.
(MIRA 17:7)

TERTERYAN, R.A.; DINTSES, A.I.; RYSAKOV, M.V.

Block copolymerization of ethylene with vinylacetylene. Zhur. VKHO 8 no.5:589-591 '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nefte-pererabatyvayushchey promyshlennosti.

RYSAKOV, M.V.; AGAFONOV, A.V.; GOL'DSHTEYN, D.L.; OSIPOV, L.N.; ROGOV, S.P.; KHAVKIN, V.A.

Hydrofining of diesel fuels with an important reduction in hydrogen consumption. Khim. i texh. topl. i masel. 8 no.3: 7-11 Mr 163. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

(Diesel fuels) (Petroleum-Refining) (Hydrogen)

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RYSAKOV, M.V., GOLDSHTEYN, D.L., GUSENKOVA, YE.A., ALFINOVA, E.A.,
BOROVAYA, M.S., PUCHKOV, N.G., KAZANSKIY, V.L., BADYSHTOVA, K.M.,
ROGACHEVA, I.M., CHESNOKOV, A.A., DENISENKO, K.K., ALTSHULER, A.G.,
GERASIMENKO, N.M., YASTREBOVA, G.I., ZHADANOVSKIE, N.B.

Production of High-grade petroleum oils and waxes by hydrogenation.

Report to be submitted for the Sixth World Petroleum Congress,
Frankfurt, 16-26 June 63

#### S/065/63/000/003/001/006 E075/E436

AUTHORS: Rysakov, M.V., Agafonov, A.V., Gol'dshteyn, D.L.,

Osipov, L.N., Rogov, S.P., Khavkin, V.A.

TITLE: Hydrofining of diesel fuels with a considerable

reduction of hydrogen consumption

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.3, 1963, 7-11

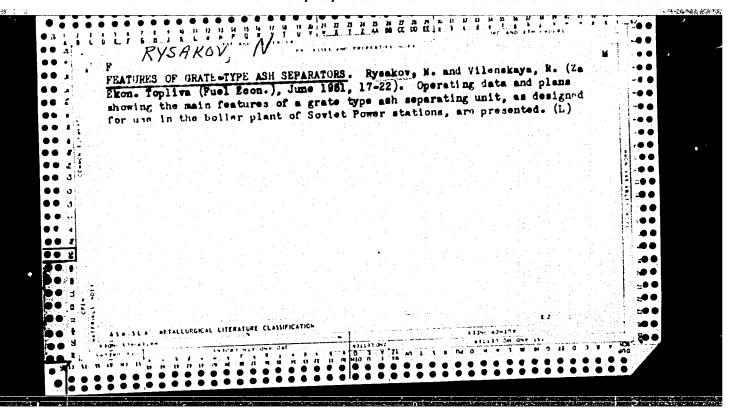
TEXT: In an attempt to refine sulphurous diesel fuels with a reduced quantity of hydrogen, a method was developed with the use of internal H2 (autofining) as well as external H2. It was applied to a 1:1 mixture of diesel fuel fractions from Arlan crude and catalytic gas oil from Romashkino crude. The method gave the optimum results at 30 kg/cm² and 400°C. Lowering the pressure to 22 kg/cm² does not affect the H2 consumption. Increase of temperature to 420-440°C, although decreasing the H2 consumption, may shorten the catalyst life (alumino-cobaltomolybdate). At 400°C and 30 kg/cm² the content of aromatics decreases to 16.3% from 21.6% with a simultaneous increase in the amount of naphthene-paraffins. The catalyst was used without losing its activity for 400 hours at a space velocity of 2.0 h<sup>-1</sup>, temperature 400°C, pressure 30 kg/cm² and H2 circulation of 300 m3/m³. The Card 1/2

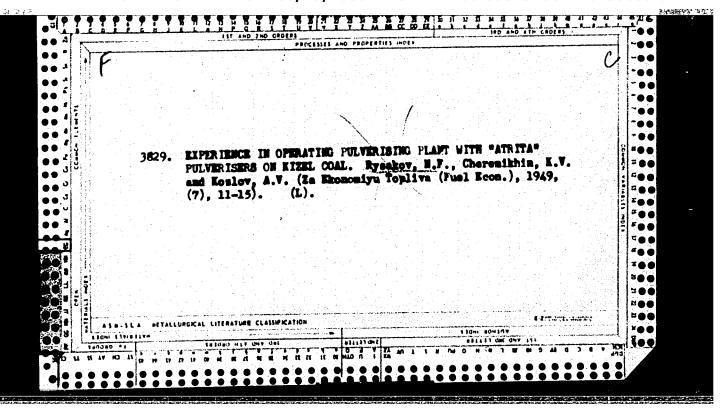
S/065/63/000/003/001/006
Hydrofining of diesel ... E075/E436

consumption of  $H_2$  was 0.2 to 0.3 wt.% of the diesel fuel. The refined fuel contained 0.12 to 0.13% S (originally 1.62%). There are 4 tables.

ASSOCIATION: VNII NP

Card 2/2





RYSAKOV, N. F.

USSR/Electricity - Boilers

Jun 50

"Two-Stage Evaporation and Steam Separation in a TKP-3 Type Boiler," O. L. Del'va, N. F. Rysakov, Engineers

"Elek Stants" No 6, pp 48-50

Describes experiments which prove it practical to convert TKP-3 type boiler to twostage evaporation system. Reconstructed boiler can be operated at maximum load of 190/200 tons/hr, with boiler water salt content of 4,500 mg/l. Diagrams and graphs show operating characteristics of boiler at maximum and normal loads.

PA 162T7

